Notice of Allowability	Application No.	Applicant(s)	
	10/651,215	HAKAMATA, KAZUO	
	Examiner	Art Unit	
	Philip R. Smith	3739	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communication is subjection is subjection.	s application. If not included ation will be mailed in due co	l ourse. THIS
1. This communication is responsive to <u>29 August 2003</u> .			
2. The allowed claim(s) is/are <u>1-10</u> .			
3. \boxtimes The drawings filed on <u>29 August 2003</u> are accepted by the	Examiner.		
4.	e been received. e been received in Application N	o ·	on from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the requ	irements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			TICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the second sheet.	son's Patent Drawing Review(F s Amendment / Comment or in t l.84(c)) should be written on the d	he Office action of rawings in the front (not the b	oack) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			ote the
 Attachment(s) 1 ⋈ Notice of References Cited (PTO-892) 2 ⋈ Notice of Draftperson's Patent Drawing Review (PTO-948) 3 ⋈ Information Disclosure Statements (PTO-1449 or PTO/SB/OPAPER No./Mail Date 8/29/2003 4 ⋈ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Sumr Paper No./Mai 08), 7. ☑ Examiner's Am	l Date	

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with an associate of Mr. Darryl Mexic on 8/17/2005. The application has been amended as follows: the title will be amended to read --IMAGING APPARATUS WHICH ADJUSTS FOR DARK NOISE AND READOUT NOISE--.

The following is an examiner's statement of reasons for allowance: The prior art discloses separately the relationship between (a) full well size (" $^{1}/_{M}$ ") and dark noise; as well as between (b) readout frequency ("N") and readout noise. The prior art discloses no relationship between dark noise and readout noise wherein $n_d(1-^{1}/_{M}) > n_r^2(N^2-1)$.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Komiya (5,264,940) discloses the setting of exposure time in order to achieve the greatest dynamic range, taking "dark current noise" and "system noise" into account and adjusting exposure time. Hynecek (5,337,340), the inventor of the charge multiplying detector (CMD), discloses the relationship between full well size and dark noise. Hakamata (6,760,058) discloses an endoscope that reduces dark noise.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip R. Smith whose telephone number is (571) 272 6087. The examiner can normally be reached on 10:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda Dvorak can be reached on (571) 272 4764. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

prs

John P Leubecker Primary Examiner